CSCI 3753: Operating Systems

Week 7
October 10th, 2025
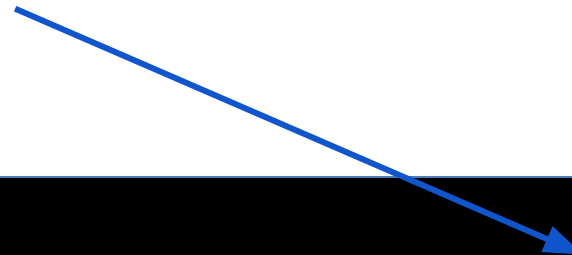
University of Colorado **Boulder**

Announcements

- <u>PS6 due next Sunday at midnight!</u>

- As always recitation materials are stored here

On-Going

- PA4 ✅
  - Create a shared array
- PA5 🚫
  - Create a DNS resolver
- PA6 🔁
  - Combine these to create a multi-threaded DNS resolver

Bounded Buffer Problem!!

PA6

- multi-threaded DNS resolver
  - multi-lookup <# requester> <# resolver> <requester log> <resolver log> [<data file> ...]
    - <# requesters> number of requestor threads to place into the thread pool
    - <# resolvers> number of resolver threads to place into the thread pool
    - <requester log> name of the file into which requested hostnames are written
    - <resolver log> name of the file into which hostnames and resolved IP addresses are written
    - <data file> filename to be processed. Each file contains a list of host names, one per line, that are to be resolved

PA6 Diagram